DATA DISAGGREGATION

DATA DISAGGREGATION

disaggregate:

    – to separate into component parts

    – to break up or apart

thematrixiscomingforyouareyouready

DATA DISAGGREGATION

- CALSIM II:
  - uses synthetic monthly mean hydrology
  - is designed for comparative use to evaluate long term trends and impacts
  - **is not** an event driven simulator for impact analysis

DATA DISAGGREGATION

- Local Ops and Temperature Models
  - Will need synthetic weekly and daily mean flow values
 - Will also be designed for comparative use to evaluate effects

monthly values need to be disaggregated into weekly or daily values

DATA DISAGGREGATION

- Three main categories:

    - CALSIM II Oroville Complex inflows/diversions
    - CALSIM II downstream river inflows/diversions for temperature model
    - CALSIM II Operation results for weekly local ops model

DATA DISAGGREGATION
CALSIM 2 schematic
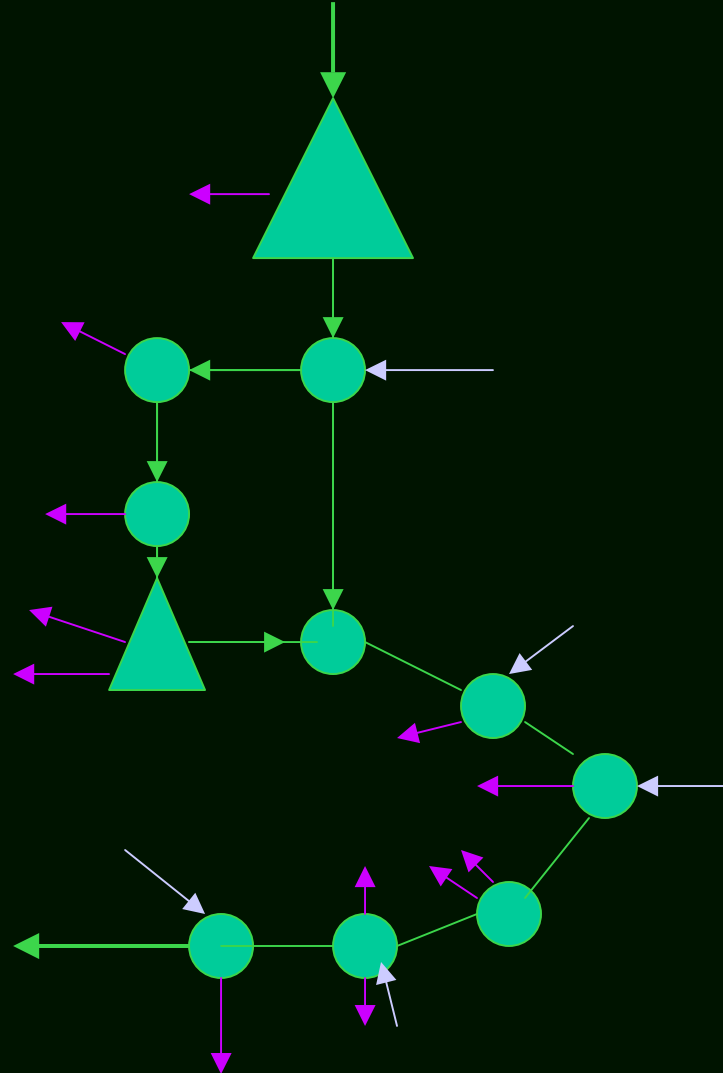
CALSIM II
Inflows & Diversions

- All simulations at the same level of development will use the same inflow & diversion values.

- Diversion rates are usually ON or OFF with little variance.

- Reservoir Inflows drive storage conditions which drive release decisions.

CALSIM II
example of monthly inflow

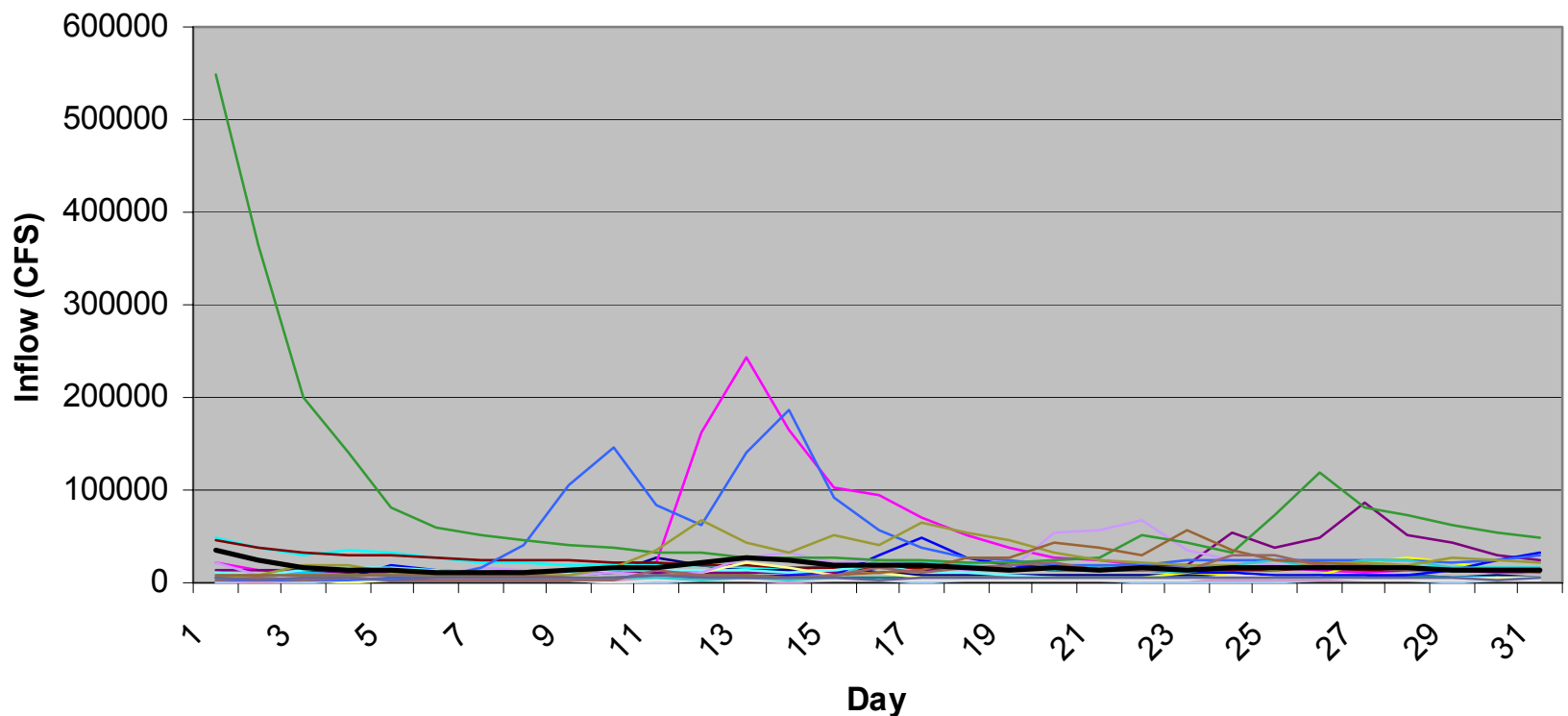Monthly Oroville inflow via CALSIM
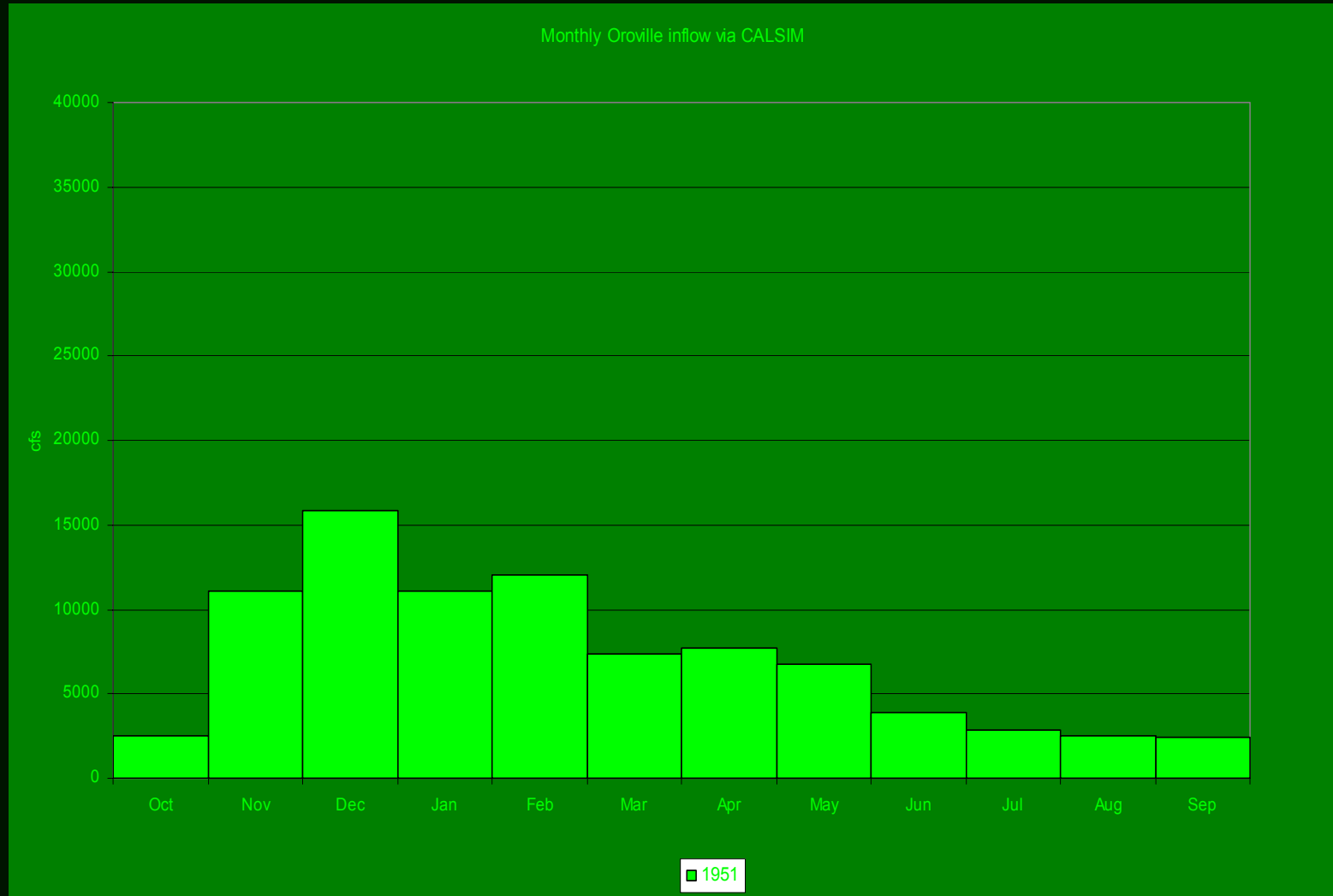
Conversion: Monthly to Daily
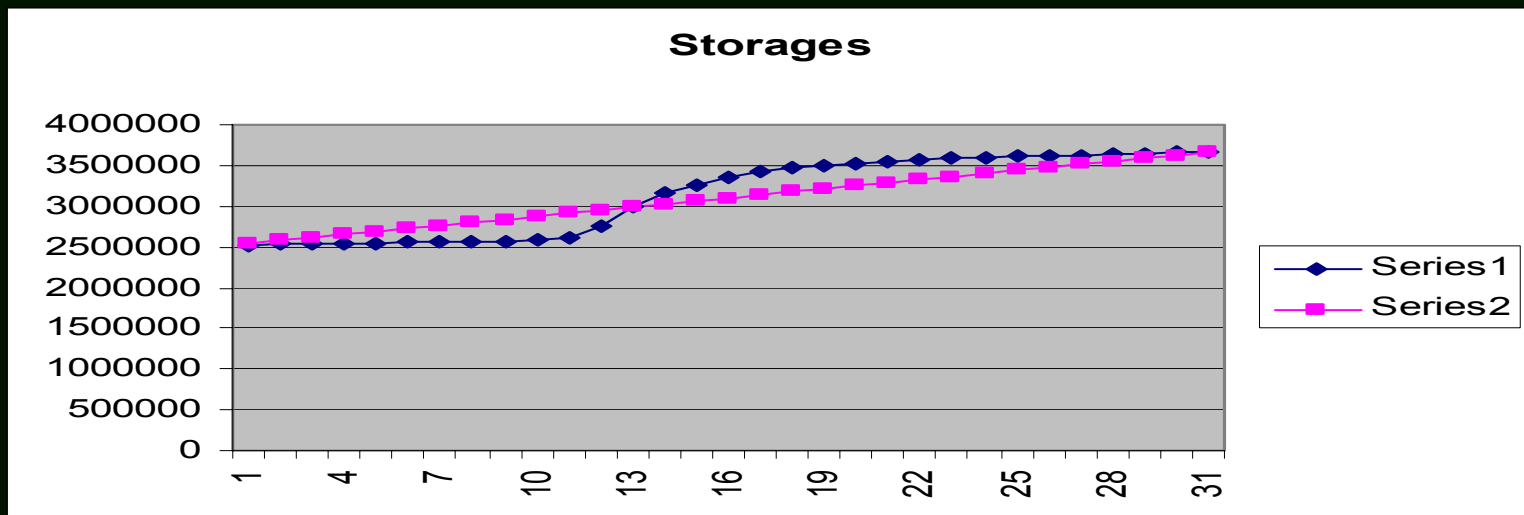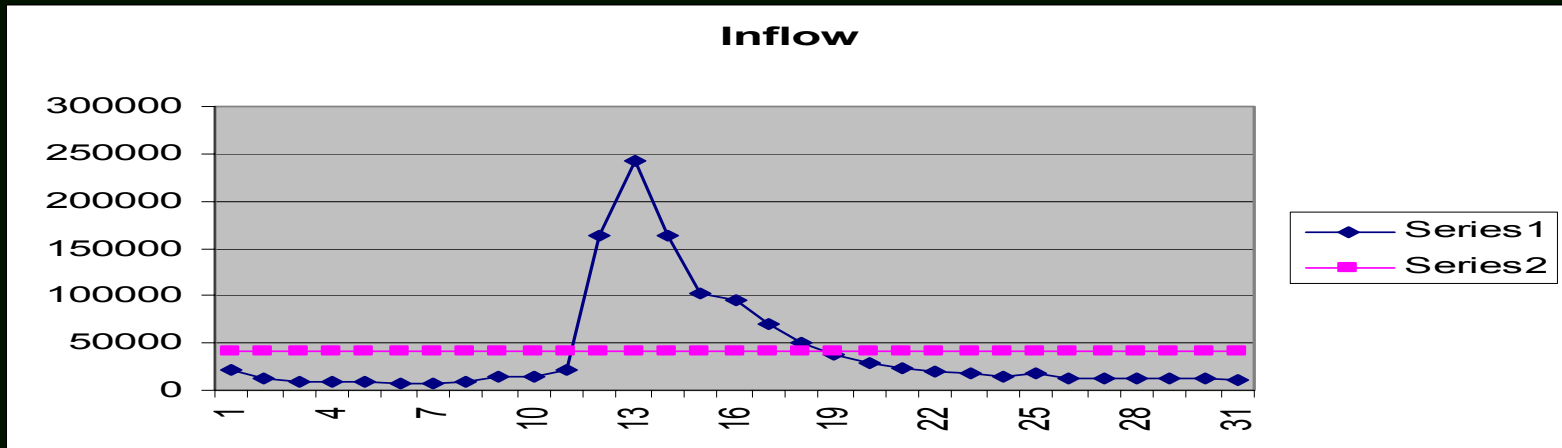## Inflow into Lake Oroville

- How do we select a pattern?

- Historic data (from 1979 – 2001) suggest there is no "typical" pattern for wet months.

- Do we need a pattern? --If not, why?

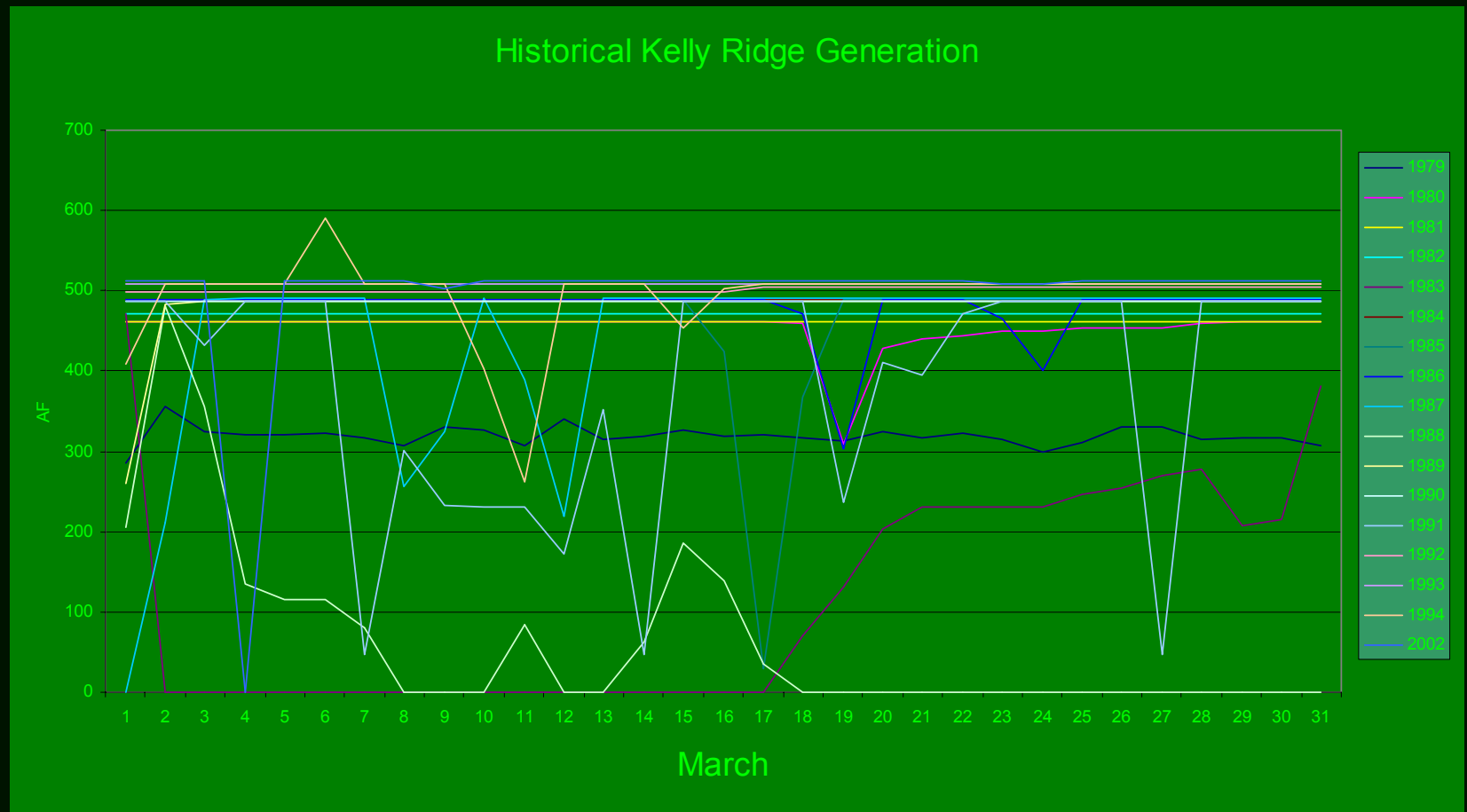# Conversion: Monthly to Daily
Inflow into Lake Oroville

Historical January Oroville Daily Inflow

Conversion: Monthly to Daily
Inflow into Lake Oroville

Conversion: Monthly to Daily
Generation at Kelly Ridge

Conversion: Monthly to Daily
Inflow into Lake Oroville

- Monthly mean to daily conversion using constant average.

DATA DISAGGREGATION

- CALSIM II Oroville Complex inflows/diversions
- CALSIM II downstream river inflows/diversions for temperature model
- CALSIM II Operation results for weekly local ops model

DATA DISAGGREGATION

Presented by

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